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NOTICE OF ALLOWANCE AND FEE(S) DUE

22850 7590 01/04/2010

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET

ALEXANDRIA, VA 22314

EXAMINER HUYNH, NAM TRUNG

ART UNIT PAPER NUMBER

2617 DATE MAILED: 01/04/2010

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNEY DOCKET NO.
 CONFRMATION NO.

 10762.534
 01/23/2004
 Kenji Nishimura
 248054US8
 4975

TITLE OF INVENTION: COMMUNICATION SYSTEM, MULTICAST SWITCHING DEVICE, AND COMMUNICATION METHOD

 APPLN TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(S) DUE
 DATE DUE

 nonprovisional
 NO
 \$1510
 \$300
 \$0
 \$1810
 0405/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE: shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used I correspondence including d below or directed off	or trans ig the F ierwise	smitting the ISSU atent, advance of in Block 1, by (a	JE FEE and PUBLICAT rders and notification of a) specifying a new corre	TION FEE (if requestion requestion in the contract of the cont	ired). I vill be and/or	Blocks 1 through 5 sh mailed to the current r (b) indicating a sepa	ould be completed where correspondence address as rate "FEE ADDRESS" for	
CURRENT CORRESPONDE	any change of address)	No Fe pa	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.						
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				Г				(Depositor's name)	
								(Signature)	
								(Date)	
APPLICATION NO.	APPLICATION NO. FILING DATE		FIRST NAMED INVEN		ATTORNEY DOCKET NO.		CONFIRMATION NO.		
10/762,534	01/23/2004			248054US8			4975		
TITLE OF INVENTION	COMMUNICATION	YSTE?	M, MULTICAST	SWITCHING DEVICE,	AND COMMUNIC	ATION	METHOD		
APPLN, TYPE	SMALL ENTITY	ISS	SUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO		\$1510	\$300	\$0	\$0 \$1810		04/05/2010	
EXAM	INER		ART UNIT	CLASS-SUBCLASS	1				
HUYNH, NA	HUYNH, NAM TRUNG		2617	455-466000	_				
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CFR 1.363). Change of correspondence of corresp	ondence address (or Cha	nge of C	Correspondence	(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,					
Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached.				(2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to					
"Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Custome Number is required.				2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
3. ASSIGNEE NAME A	ND RESIDENCE DATA	то в	E PRINTED ON 7	THE PATENT (print or ty	pe)				
PLEASE NOTE: Unl	ess an assignee is ident	ified be	low, no assignee	data will appear on the	patent. If an assign	ee is id	dentified below, the do	cument has been filed for	
(A) NAME OF ASSIC		action (A unb total lo : 10	(B) RESIDENCE: (CIT					
Please check the appropri	ate assignee category or	catego	ries (will not be pr	inted on the patent):	Individual 🔲 C	orporati	ion or other private gro	up entity 🚨 Government	
4a. The following fee(s) a	are submitted:		41	o. Payment of Fee(s): (Ple	ase first reapply a	ov pres	dously paid issue fee s	hown above)	
☐ Issue Fee				A check is enclosed.					
Publication Fee (No small entity discount permitted) Advance Order - # of Copies				☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any					
Advance Order - #	of Copies			overpayment, to Dep	osit Account Numb	ge the	(enclose ar	extra copy of this form).	
 Change in Entity State a. Applicant claims 	us (from status indicate SMALL ENTITY state			☐ b. Applicant is no lo	nger claiming SMA	LLEN	FITY status. Sec 37 CF	R 1.27(g)(2).	
NOTE: The Issue Fee and interest as shown by the r	d Publication Fee (if req ecords of the United Sta	iired) w tes Pate	rill not be accepted int and Trademark	d from anyone other than Office.	the applicant; a reg	stered	attorney or agent; or th	e assignee or other party in	
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		FR 1.3	11. The informatic	on is required to obtain or	-		lic which is to file (and	by the USPTO to process)	
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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/762,534	01/23/2004	Kenji Nishimura	248054US8	4975	
22850 75	90 01/04/2010	EXAMINER			
OBLON, SPIVA	K, MCCLELLAND	HUYNH, NAM TRUNG			
1940 DUKE STRE		ART UNIT	PAPER NUMBER		
ALEXANDRIA, V	A 22314		2617		
		DATE MAILED: 01/04/2010			

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 750 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 750 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/762.534 NISHIMURA ET AL. Notice of Allowability Examiner Art Unit NAM HUYNH 2617 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to Amendment filed on 9/22/09. The allowed claim(s) is/are 2-4,7-9,14 and 16-18. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) ☐ Some* c) ☐ None of the: a) 🔯 All 1. A Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application 2. Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. X Examiner's Amendment/Comment Paper No./Mail Date 4. T Examiner's Comment Regarding Requirement for Deposit 8. X Examiner's Statement of Reasons for Allowance of Biological Material 9. 🔲 Other _____.

/George Eng/

Supervisory Patent Examiner, Art Unit 2617

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DETAILED ACTION

Response to Amendment

This office action is in response to amendment filed on 9/22/09. Of the previously presented claims 2-4, 7-11, 14, and 16-18; claims 2-4, 7-11, 14, 16, and 17 have been amended.

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 2-4, 7-9, 14, and 16-18, drawn to a communication system and high order switching device, classified in class 455, subclass 422.1.
 - Claims 10 and 11, drawn to a low order switching device, classified in class 455, subclass 560.
- 2. Inventions I and II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct if they do not overlap in scope and are not obvious variants, and if it is shown that at least one subcombination is separately usable. In the instant case, subcombination II has separate utility such as a multicast low order switching device that determines timing and generates packet data for a multicast transmission to a plurality of secondary low order switching devices and base stations. See MPEP § 806.05(d).

The examiner has required restriction between subcombinations usable together.

Where applicant elects a subcombination and claims thereto are subsequently found

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allowable, any claim(s) depending from or otherwise requiring all the limitations of the allowable subcombination will be examined for patentability in accordance with 37 CFR 1.104. See MPEP § 821.04(a). Applicant is advised that if any claim presented in a continuation or divisional application is anticipated by, or includes all the limitations of, a claim that is allowable in the present application, such claim may be subject to provisional statutory and/or nonstatutory double patenting rejections over the claims of the instant application.

3. This application is in condition for allowance except for the presence of claims 10 and 11 directed to a non-elected invention without traverse. Applicant's representative Sameer Gokhale has elected invention I without traverse over the phone on 12/18/09. Accordingly, claims 10 and 11 are cancelled in the Examiner's amendment below.

EXAMINER'S AMENDMENT

4. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Sameer Gokhale on 12/18/09.

Claims

Claims 10 and 11 are cancelled.

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Allowable Subject Matter

- Claims 2-4, 7-9, 14, and 16-18 are allowed.
- 6. The following is an examiner's statement of reasons for allowance:

The invention of the current application pertains to a communication system, a multicast switching device, and a communication method which can prevent wasteful consumption of network resources and improve communication quality of data obtained by a communication terminal. Regarding independent claim 2, the novelty of the invention lies in the combination of network components and how the high order switching device determines a transmission time for itself and the low order switching devices to transmit packet data resulting in simultaneous data reception at the mobile terminal. The claim specifies that the high order switching device determines the time base on a time period necessary for transmission of the packet data from the high order switching device and a time period necessary for transmission of the packet data from each of the plurality of low order switching devices to the plurality of base stations in order for the packet data to arrive at the mobile terminal simultaneously. These features are neither taught nor suggested by the prior art.

Accordingly, independent claim 2 and independent claims 3, 7, 8, 9, and 14 which recite the same subject matter are allowable for these reasons and the reasons set forth in Applicant's Arguments filed on 9/22/09.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Art Unit: 2617

Statement of Reasons for Allowance."

accompany the issue fee. Such submissions should be clearly labeled "Comments on

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NAM HUYNH whose telephone number is (571)272-5970. The examiner can normally be reached on 8 a.m.-5 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on 571-272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/George Eng/ Supervisory Patent Examiner, Art Unit 2617 /Nam Huynh/ Examiner, Art Unit 2617